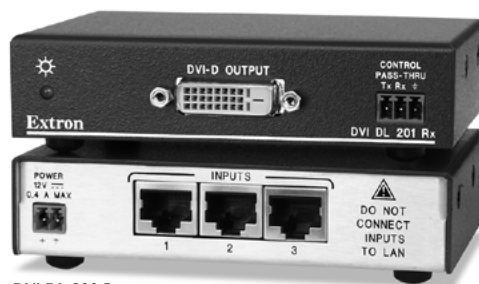


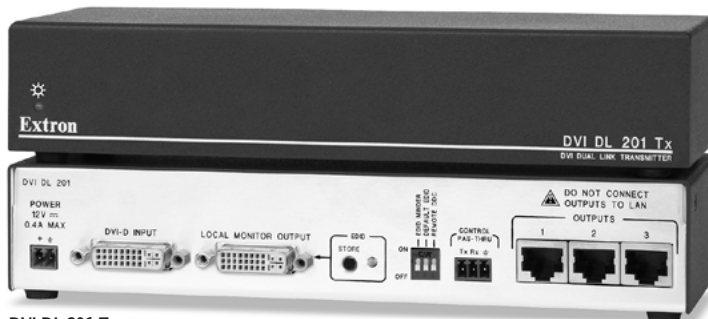
# DVI DL 201

## DUAL LINK DVI TWISTED PAIR EXTENDER

- Transmits dual link DVI-D and RS-232 signals over three CAT 5-type cables
- Accommodates high resolution computer-video signals up to 2560x1600
- Sends 2560x1600 signals over 100 feet (30 meters)
- DVI input loop-through
- Supports DDC and HDCP
- EDID Minder
- Two-way remote powering
- Bi-directional RS-232/IR pass-through



DVI DL 201 Rx



DVI DL 201 Tx

The Extron DVI DL 201 sends dual link or single link DVI signals long distances using three standard CAT 5-type cables. The DVI DL 201 is ideal for applications that require long distance digital video transmission and optimal presentation of high resolution graphics.



# Extron® Electronics

[www.extron.com](http://www.extron.com)

## DESCRIPTION

The Extron **DVI DL 201** is a transmitter and receiver set that enables dual link or single link DVI signals to be carried over distances significantly greater than the specified 5 meter (15 foot) limitation for dual link DVI cables. Linked together using three economical and integration friendly CAT 5, CAT 5e, CAT 6, or CAT 7 cables, the DVI DL 201 transmitter and receiver work together to send dual link or single link DVI-D signals up to 200 feet. The DVI DL 201 is ideal for installations that require long distance digital video transmission and reliable presentation of high resolution graphics, including training, simulation, visualization, and command and control environments in medical, university, government, and other applications.

The DVI DL 201 features EDID Minder, which automatically manages EDID - Extended Display Identification Data communication between the input source and the display, ensuring the source powers up properly and reliably delivers content to the display. The DVI DL 201 also supports the long distance transmission of HDTV signals with HDCP - High-bandwidth Digital Content Protection for copy protection of digital television broadcasts and high resolution digital video output. The DVI DL 201 is fully compatible with HDMI signals when used with the appropriate adapters from Extron.

Several features facilitate convenient, streamlined system integration. The DVI DL 201 transmitter includes a DVI loop-through to support monitoring on a local display device. RS-232 or IR signals from a third-party control system can also be transmitted over the same cabling as the DVI signals, providing remote control of a projector or flat-panel display. Furthermore, either the transmitter or receiver can be remotely powered over this cabling, so that external power is necessary for only one of the devices.

The DVI DL 201 transmitter is housed in a 1U, half rack width enclosure, while the DVI DL 201 receiver is housed in a 1" high, quarter rack width metal enclosure allowing for a discreet, concealed installation. Both devices are also available separately.



DVI DL Series  
Dual Link DVI-D Male to Male Patch cables

## FEATURES

- **Transmits dual link DVI-D and RS-232 signals over three CAT 5-type cables** – Standard UTP/STP cables provide an economical, easily installed cable solution.
- **Sends 2560x1600 signals over 100 feet (30 meters), XGA (1024x768) signals over 200 feet (60 meters)** – Utilization of STP - Shielded Twisted Pair cabling provides added protection from outside interference and increases overall signal transmission distances.
- **DVI input loop-through** – The DVI DL 201 transmitter features a DVI-D output for connection to a local monitor.
- **Supports DDC and HDCP** – The DVI DL 201 fully supports long distance transmission of DDC and HDCP signals.
- **DDC routing to local or remote display** – At the DVI DL 201 transmitter, the DDC or HDCP signal is directed to either the local display or the remote display, depending on which is more critical in receiving the signal.
- **EDID Minder** – A selectable feature that enables automatic and continuous EDID management between the input source and the display. EDID Minder ensures that the source powers up properly and reliably outputs content to the display.
- **Remote powering of transmitter or receiver** – Only one power supply is necessary to power both devices.
- **Bi-directional RS-232/IR pass-through** – Bi-directional RS-232 control or IR signals can be transmitted alongside the DVI signals, so that the remote display can be controlled without the need for additional cabling.
- **LED indicator for source signal presence and power**
- **Fully supports HDMI signals when used with optional Extron HDMI-DVI adapters** – Supports CEC Consumer Electronics Control signal transmission.
- **1U, half rack width metal enclosure - DVI DL 201 Tx, 1" (2.5 cm) high, quarter rack width metal enclosure - DVI DL 201 Rx** – With a low profile enclosure, the DVI DL 201 receiver can be discreetly installed, such as behind a plasma or LCD flat-panel display.
- **External universal power supply included with Tx models and Tx/Rx sets** – Provides worldwide power compatibility.

## VIDEO

Maximum data rate .....	10 Gbps (3.3 Gbps per color)
Maximum pixel clock.....	330 MHz (165 MHz per link)
Resolution range .....	Up to 2560x1600 @ 60 Hz
Formats.....	RGB and YCbCr digital video
Standards.....	DVI 1.0, HDMI 1.2

## VIDEO INPUT AND LOOP THROUGH – TRANSMITTER

Number/signal type .....	1 dual link DVI-D* input 1 dual link DVI-D* local loop-through
Connectors .....	2 DVI-I female (1 for input, 1 for loop-through)

**NOTE:** \*Also compatible with single link DVI signals; appropriate DVI-D to HDMI adapters required for HDMI signals.

## INTERCONNECTION BETWEEN TRANSMITTER AND RECEIVER

Connectors .....	(3) RJ-45 per unit for 2 CAT 5/5e/7 or STP (shielded twisted pair) cables connecting the transmitter and receiver
Termination standards.....	TIA/EIA T568A or T568B
Signal transmission distance	
2560x1600 @ 60 Hz	
STP (shielded twisted pair cable) ..	Up to 125' (38 m)
CAT 5/5e/7 cable.....	Up to 100' (30 m)
	Longer distances are possible with lower rates.

**NOTE:** The transmission distance varies greatly depending on the signal resolution and on the type of cable, graphics card, and display used in the system.

## VIDEO OUTPUT— RECEIVER

Number/signal type .....	1 dual link DVI-D*
Connectors .....	1 DVI-I female

## CONTROL/REMOTE – EXTERNAL DEVICE (PASS-THROUGH)

Serial control port input	
Transmitter.....	RS-232 via (1) 3.5 mm, 3 pole captive screw connector
Receiver .....	1 set of proprietary signals on a female RJ-45 jack
Serial control port output	
Transmitter.....	1 set of proprietary signals on a female RJ-45 jack
Receiver .....	RS-232 via a 3.5 mm, 3 pole captive screw connector

**NOTE:** Protocol is mirrored between the transmitter and the receiver.

## GENERAL

External power supply .....	100 VAC to 240 VAC, 50/60 Hz, 6 W max., external; to 12 VDC, 2 A, regulated
Power input requirements .....	12 VDC, 0.4 A for both transmitter and receiver
<b>NOTE:</b> Each transmitter or receiver can be powered either locally by an external power supply or remotely by receiver or transmitter on the other end of the CAT 5/5e/7 or STP (shielded twisted pair) cable.	
Temperature/humidity .....	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing

Cooling .....	Convection, no vents
Mounting	
Rack mount.....	Yes, with optional 1U, 9.5" deep rack shelf (RSU 129, #60-190-01; RSB 129, 60-604-01); 1U, 6" deep rack shelf (RSU 126, #60-190-10; RSB 126, 60-604-10); or VersaTools® 1U, 3.5" deep rack shelf (RSF 123, #60-190-20; RSB 123, 60-604-20)
Furniture mount.....	Yes, with optional MBD 129 Through-Desk Mounting Kit (70-077-02), or attachable to a projector mount using optional PMK 250 kit (70-526-02 or -03)
Enclosure type.....	Metal
Enclosure dimensions	
DVI DL 201 Tx .....	1.75" H x 8.75" W x 3.0" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 7.6 cm D (Depth excludes connectors.)
DVI DL 201 Rx .....	1.0" H x 4.3" W x 3.0" D (quarter rack wide) (2.5 cm H x 10.9 cm W x 7.6 cm D) (Depth excludes connectors.)
Product weight .....	Transmitter: 0.6 lbs (0.3 kg) Receiver: 0.3 lbs (0.1 kg) Transmitter and receiver: 0.9 lbs (0.4 kg)
Shipping weight.....	2 lbs (1 kg)
Vibration .....	ISTA 1A in carton (International Safe Transit Association)
Listings.....	UL, CUL
Compliances .....	CE, FCC Class A**, VCCI, AS/NZS, ICES
MTBF .....	30,000 hours
Warranty.....	3 years parts and labor
<b>NOTE:</b> **FCC testing is conducted with STP (shielded twisted pair) cable.	
<b>NOTE:</b> All nominal levels are at ±10%.	

Model	Version Description	Part Number
DVI DL 201 Tx/Rx	Transmitter/Receiver Set .....	60-957-01
DVI DL 201 Tx	Transmitter .....	60-957-12
DVI DL 201 Rx	Receiver.....	60-957-13

## Optional Accessories

### DVID DL Series

#### Dual Link DVI-D Male to Male Patch Cables

DVID DL/3	3' (90 cm) .....	26-651-03
DVID DL/6	6' (1.8 m).....	26-651-06
DVID DL/12	12' (3.6 m) .....	26-651-12

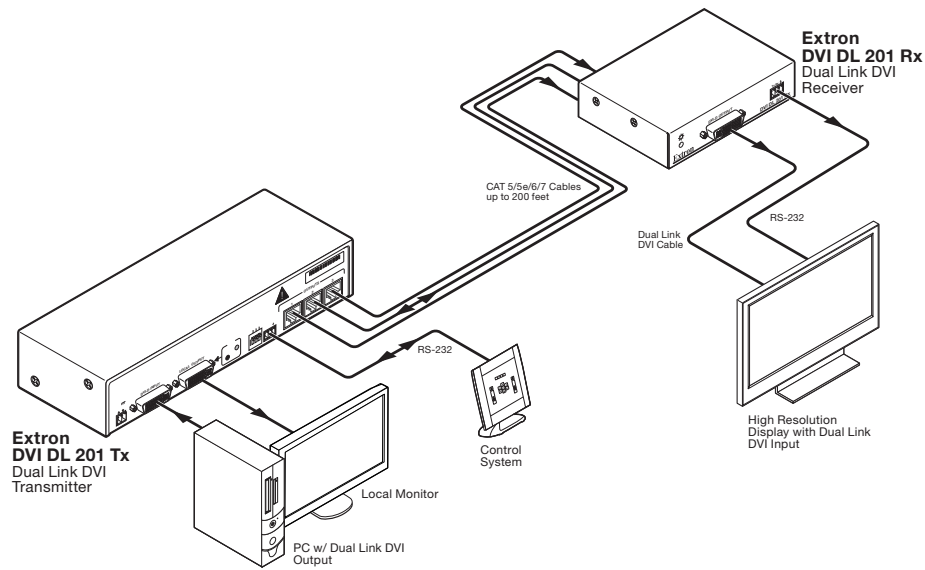
### DVID SL Series

#### Single Link DVI-D Male to Male Patch Cables

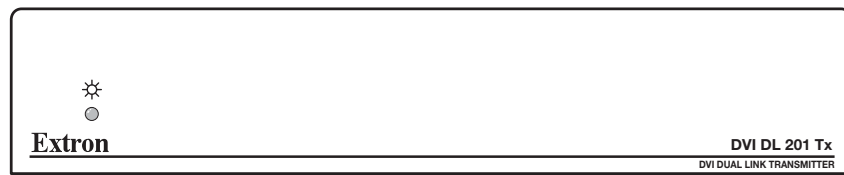
DVID SL/3	3' (90 cm) .....	26-649-03
DVID SL/6	6' (1.8 m).....	26-649-06
DVID SL/12	12' (3.6 m) .....	26-649-12

HDMI-DVIDM	HDMI Female to DVI-D Male Adapter .....	26-616-01
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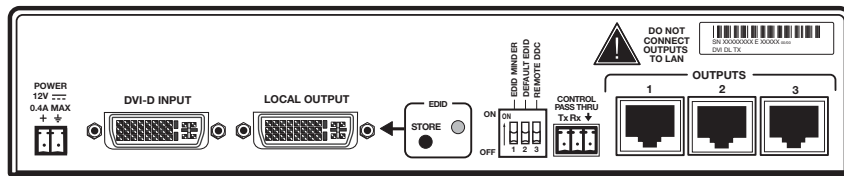
# APPLICATION DIAGRAM



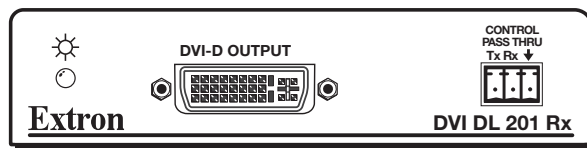
# PANEL DRAWINGS



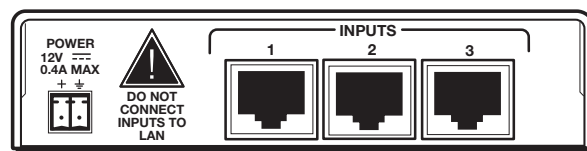
DVI DL 201 Tx - Front



DVI DL 201 Tx - Back



DVI DL 201 Rx - Front



DVI DL 201 Rx - Back



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